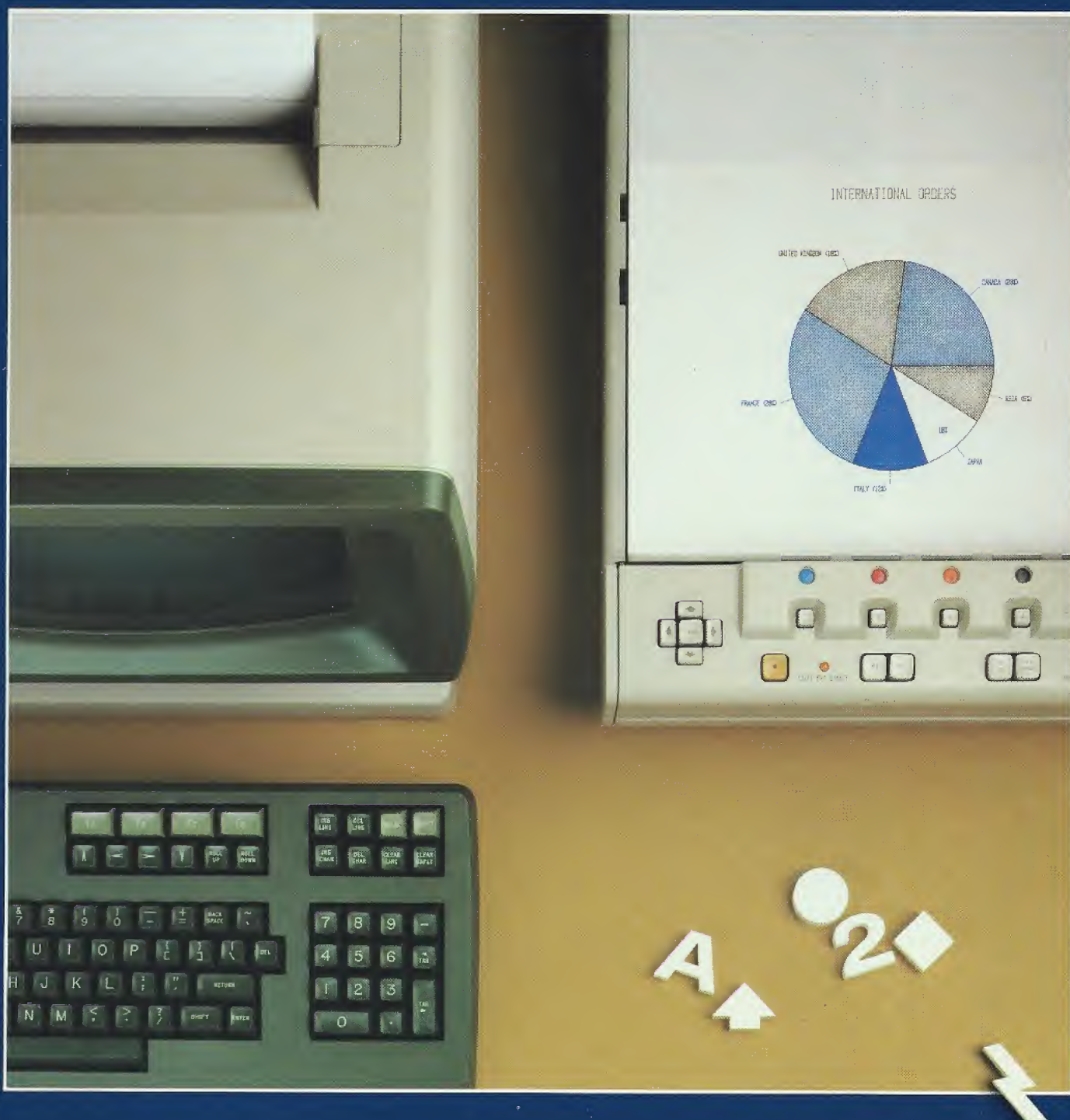


# HP 125 Business Assistant

 HEWLETT  
PACKARD

## Product Information



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## Software Support

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To help you utilize the HP 125 software to its fullest capability, Hewlett-Packard offers two levels of software support. Both include a phone-in consulting service where trained software specialists answer questions about using the HP 125. The first level of support is designed for users of our application software who have

questions about utilizing the features of the software programs. A higher level of support is available for programmers who are writing new software applications for the HP 125. Both are designed to help users get maximum performance from the HP 125 system in their particular applications.

## Hardware Service

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The HP 125 system was designed to give you many years of reliable service. However, if your system should require service, Hewlett-Packard maintains a worldwide force to provide prompt and efficient equipment repair. To fit various users' needs Hewlett-Packard offers several different levels of hardware service. These

levels range from on-site service with specified response time to bench repair at an HP service facility. Service contracts are available at low monthly rates. Hewlett-Packard provides the same high quality service for the HP 125 that has helped make us a leader in the computer industry.

## Computer Supplies:

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Hewlett-Packard provides a complete line of supplies for the HP 125 personal office computer. The supplies product line includes flexible discs, printer paper, ribbons, print wheels, plotter pens, and overhead transpar-

ency kits. Work tables and additional computer cables are also available. A toll-free telephone number provides a quick and easy way to obtain your computer supplies. Normally your order will be shipped in one day.

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17013A	Small-Sheet Plotter Supplies Kit (7470A)
17031A	Large-Sheet Plotter Supplies Kit (9872C)
17055A	Overhead Transparency Kit
92160A	Thermal Paper, Blue Print, Box of 24 rolls
92160B	Thermal Paper, Black print, Box of 24 rolls
92190A	Flexible Discs, 0.25 MB, Box of 10
92195A	Flexible Discs, 1.2 MB, Box of 10

... plus printer paper, ribbons, print wheels, plotter pens.

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### HP 2631B Serial Printer

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The 2631B is a microprocessor controlled, 180 character per second serial printer that serves as a medium

speed printer for the HP 125 system. It can be used either as a desktop printer or with an optional pedestal.

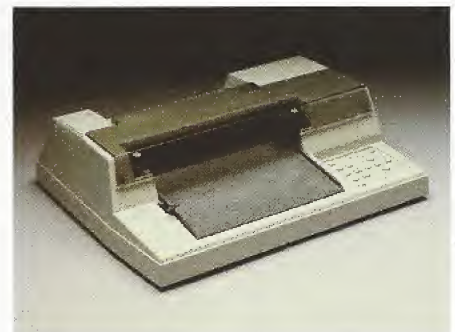


### HP 7470A Graphics Plotter

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The HP 7470A is a compact and efficient 2-pen plotter which combines high plotting speed with excellent line quality. It uses a proven paper moving technology similar to that of large drafting plotters. The 7470A produces professional quality hardcopy

graphics on standard 8½ x 11-inch paper or overhead transparencies. Multiple colors and line widths are achieved by manually interchanging pens. The 7470A automatically caps its pens to prevent ink dry-out.



### HP 9872C Graphics Plotter

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The HP 9872C is a microprocessor-based, 8-pen, graphics plotter that produces high quality graphics on any paper size up to 280 x 432mm (11x17 inches). Under program control the 9872C will create multicolor graphics by automatically selecting alternate pen colors and line widths.

Replacing pens in their stalls effectively caps the pen preventing ink dry-out. Two stepper motors provide fast, high resolution plotting with excellent line quality. The plotter can use either standard paper or overhead transparencies.





## System Peripherals

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### HP 2671A and Integral Thermal Printer

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Two thermal printers are available for the HP 125 system. Both printers offer fast, quiet, bi-directional printing at 120 characters per second. The integral thermal printer is housed in

the top of the HP 125 system package and conserves desk space. The HP 2671A will use flat, fan fold paper in addition to rolled thermal paper.



### HP 82905B Serial Printer

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The HP 82905B is a low speed, general purpose printer featuring 80 character per second bi-directional impact

printing. The printer uses a 9 x 9 dot matrix character font and is capable of printing up to 132 characters per line.



### HP 2601A Daisywheel Printer

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The HP 2601A daisywheel printer generates letter quality output for reports, correspondence, and other applications that require high print quality. The word processing capabilities designed into the HP 2601A fur-

ther enhance the printed output. Special proportionally spaced print wheels, which are available in several languages and type styles, produce printed output that is unachievable by most electric typewriters.

### Peripheral Support

- RS232C serial printer
- Specified HP mass storage devices, plotters, and printers
- Integral thermal printer (optional) operates at 120 characters per second.

### Reliability and Serviceability

- Go/no-go and diagnostic self tests built in
- Modular construction

The HP 125 Model 10 uses dual 5¼" flexible disc drives to provide approximately 496K Bytes of on-line storage. The small flexible discs store information in a high density format. Large amounts of information can be re-

tained on- and off-line on low-cost media. The high performance and reliability of the disc drives let you store program and data files with confidence. Long flexible disc life reduces data storage costs.

The HP 125 Model 20 provides 2.2 million bytes of formatted mass storage on dual 8" flexible disc drives. The built-in controller can recognize if the flexible disc has been recorded on one or two sides. The controller also reads

and writes the IBM single-sided, single density format. The drives have been designed for high performance and reliability. Extensive self-tests are initiated at powerup and are accessible to the system processor.

The HP 125 Model 30 uses the 9135A drive, which combines a 5¼" Winchester drive (rigid disc) and a single 5¼" flexible disc drive in one compact package. The Winchester drive provides 4.4M Bytes of on-line storage which is logically separated into 4 segments of 1.1M Bytes each. The

Winchester drive provides the highest level of data storage, performance, and reliability for the HP 125. The flexible disc drive is available for convenient input and output of programs and data using removable flexible discs.

	Model 10 (82901M)	Model 20 (9895A)	Model 30	
			Winchester	Flexible
Total Capacity (2 drives, formatted)	496K bytes	2.2M bytes	4.4M bytes	248K bytes
Recording Surfaces per Drive	2	2	4	2
Recording Format Density	Double	Double	Double	Double
Tracks per Surface	35	75	75	35
Sectors per Track	16	30	30	16
Bytes per Sector	256	256	256	256
Rotation Speed (rpm)	300	360	3600	300
Average Access Time (msec.)	187	179	173	187

Additional disc drives may be added to either a Model 10 or Model 20 system up to a total of 8 disc drives.



Model 10



Model 20



Model 30



# HP 125 System Summary

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The HP 125 personal office computer is an advanced, low cost computer system for business applications. It combines the power of a dedicated Z-80A system microprocessor and 64K bytes of system memory with the full capabilities of an interactive computer terminal with its own microprocessor-based intelligence. These capabilities are packaged in a com-

pact, attractive desktop unit. A built-in 120 cps thermal printer is available as an option. Mass storage is modular and allows the user to configure the system to meet his particular storage requirements. Peripheral devices such as printers and graphics plotters can also be added. Modularity allows the HP 125 to grow in capability as users' needs increase.

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## SYSTEM FEATURES

### System Processor

- ☐ Z-80A microprocessor
- ☐ 64K Bytes of main memory
- ☐ CP/M operating system

### Terminal Processor

- ☐ Z-80A microprocessor
- ☐ 32 KBytes ROM implementing "intelligent terminal" functions
- ☐ 16 KBytes RAM for multi-page screen display

### Display

- ☐ High resolution 12" CRT offers excellent readability
- ☐ Enhanced 9 x 15 dot character cell for character clarity
- ☐ Upper/lower case characters with displayable control codes
- ☐ Display enhancements: inverse video, underline, blinking, and half-bright
- ☐ Up to 5 pages of display memory; key-controlled scrolling on a line or page basis
- ☐ Formatted screen for protected and unprotected fields

### Ease of Use

- ☐ Detachable, typewriter-style keyboard
- ☐ Separate numeric pad
- ☐ Full cursor positioning
- ☐ Full editing functions, including insert/delete character and insert/delete line
- ☐ Screen labeled function keys
- ☐ 8 user defined softkeys with 16-character labels
- ☐ Configuration menu for setting terminal parameters

### Data Communications

- ☐ 2 EIA standard RS232C communication ports
- ☐ Asynchronous point-to-point at 110 to 9600 baud
- ☐ Full duplex modem support (compatible with Bell 103A modem)
- ☐ Character, line, and block mode operation
- ☐ Flexible communication protocols



## The HP Story

Hewlett-Packard began as a small company in 1939 in Palo Alto, California. With an original investment of \$538, Stanford University graduate engineers Bill Hewlett and Dave Packard built their first product, an audio oscillator. This oscillator was easier to use, more stable, and less expensive than others available at the time. The first sale was to a Walt Disney Studios engineer who was impressed enough by the oscillator to order eight to be used in filming the movie "Fantasia."

Introduced in the mid-1960s, Hewlett-Packard's first minicomputer was designed for controlling test and measurement instruments. HP then introduced its first time-sharing minicomputer system in 1968 and found a ready market. This set the foundation for Hewlett-Packard's entry into the business computer marketplace.

As the company grew, so did its computing needs and its involvement in developing business computer systems. The HP 3000, first introduced in the early 1970's, has led the industry in distributed data processing. Together with smaller commercial systems and a full line of technical and desktop computers, Hewlett-Packard now provides a wide range of computers for both business and scientific applications. To complement the computer lines and to provide a complete solution for our customers' data processing needs, HP saw the need for a fuller line of peripherals (terminals, printers, discs, plotters, and tape drives). Carrying on this tradition of innovation in business computers, HP has introduced its newest personal office computer system, the HP 125.

For the past four years, computer product sales have increased over 25% per year and now represent approximately 50% of Hewlett-Packard's total sales of \$3.6 billion.

Through continued growth, Hewlett-Packard today is a major manufacturer of electronic equipment for measurement and computation with about 50% domestic and 50% international sales. Nearly 5,000 different products are manufactured and marketed by Hewlett-Packard. The company employs over 64,000 people at 33 U.S. divisions, 12 overseas plants, and over 180 sales and service facilities in 70 countries throughout the world.



## Service and Support

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**F**rom the day we started the company in 1939, we've tried to follow certain fundamentals deemed necessary and appropriate for the success of any type of business. We learned early in the game that our products would have to represent a technological advance, fill a real market need, and offer good value. Beginning with our first product, the company has developed thousands of products which have proved the merit of this approach by achieving remarkable customer acceptance."

"As part of this idea of 'building a better product,' we've found that by providing state-of-the-art computers and other equipment which yield the greatest possible value to our customers, we've gained and held their respect and loyalty. In our minds, there is no doubt that this has been the biggest single factor contributing to our corporate growth and well being.

"To date, more than 100,000 Hewlett-Packard computers have been installed around the world. That represents a lot of customer confidence in our computer products. We want to assure you that Hewlett-Packard will serve you well, and that you will have the complete support of our people and resources."

*David Packard*  
*William D. Hewlett*

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Hewlett-Packard maintains a firm commitment to quality in the design and manufacture of all our products. Hewlett-Packard places the same emphasis on long-term, responsive customer support. Sales and service facilities are located in over 170 sites worldwide to ensure superior customer support.

Hewlett-Packard provides full service and support for the HP 125 personal office computer. A range of service products, including repair service on your site, with specified response time, is available at low monthly rates. System installation is available at an additional charge. Answers to operational questions or problems are available through a phone-in consulting service where trained software specialists answer your questions about using the HP 125.



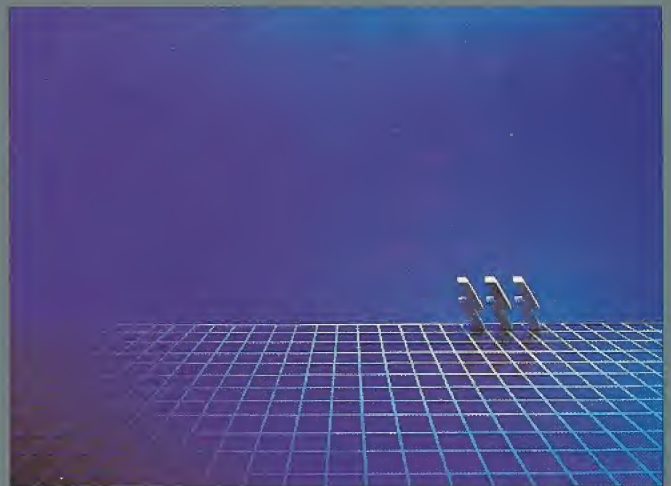
## Communications

Hewlett-Packard pioneered the concept of distributed processing because we realized how important it is to share valuable information and computer resources. Many business decisions depend on the accurate and up-to-the-minute information stored in other computers. Access to remote computers makes needed information available locally. Further, it avoids having to recreate and maintain the same data in more than one computer. The HP 125 personal office computer extends the concept of distributed processing by providing a communications link from your desk into your information network.

The HP 125 was designed with communications in mind. By pressing a button to switch from LOCAL to REMOTE operation, you are on-line to another computer. Now you can use your HP 125 as a terminal to access data bases, request reports, or perform other data processing tasks. And with its built-in flexibility the HP 125 communicates with a wide range of computers. Not only other systems within your company, but a growing range of outside computer services, too—offering everything from news summaries to stock and bond quotations to airline schedules and reservations. The HP 125 expands the world of information available to you—and makes it available right at your desk.

LINK/125 enhances the standard communication features of the HP 125 by supervising the transfer of data files between HP 125 and HP 3000 computers. With this capability you can access a data file on the HP 3000, transfer the file to the HP 125, and then store it locally. The file can be either a source program or a data file. The HP 125 can work with the file locally, store it, print it, or send it back to the HP 3000. The HP 125 is a distributed processor providing you a communications link to the rest of the computer world.

*LINK/125 is HP Product Number 45534A*









## Graphics

In this world of numbers, it's easy to generate data but often hard to turn that data into useful information. Now managers have a new analysis tool that helps make sense out of the numbers. That tool is graphics. A simple chart or graph turns columns of numbers into a visual form that is quickly and easily understood. A graph helps you immediately grasp the messages buried beneath piles of data. Graphics makes the numbers manageable.

Understanding the numbers is the first step, but just as important is being able to communicate the information. Graphs and charts are extremely effective communication tools. One chart can provide more information than several pages of tables and text. But in the past, producing professional quality graphics has been both expensive and time consuming. That's no longer true.

With GRAPHICS/125 and an HP graphics plotter you can turn the HP 125 into a graphics workstation. You can now produce high quality, multicolor charts and graphs quickly and easily. GRAPHICS/125 offers sophisticated local graphing capability which requires no programming knowledge. Menu driven, GRAPHICS/125 can plot columns of numbers in multiple formats selected by the user. Pie charts, bar charts and linear and logarithmic graphs are easily created. Different types of area shading are available to highlight information on the charts.

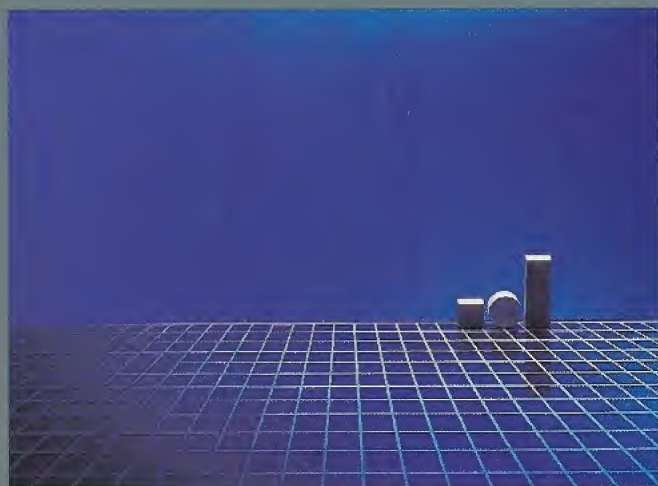
A simple menu guides you through a question and answer session about the data. Once you define the graph you want, the data can be plotted with a single keystroke. This powerful feature makes it easy to create professional quality charts and graphs.

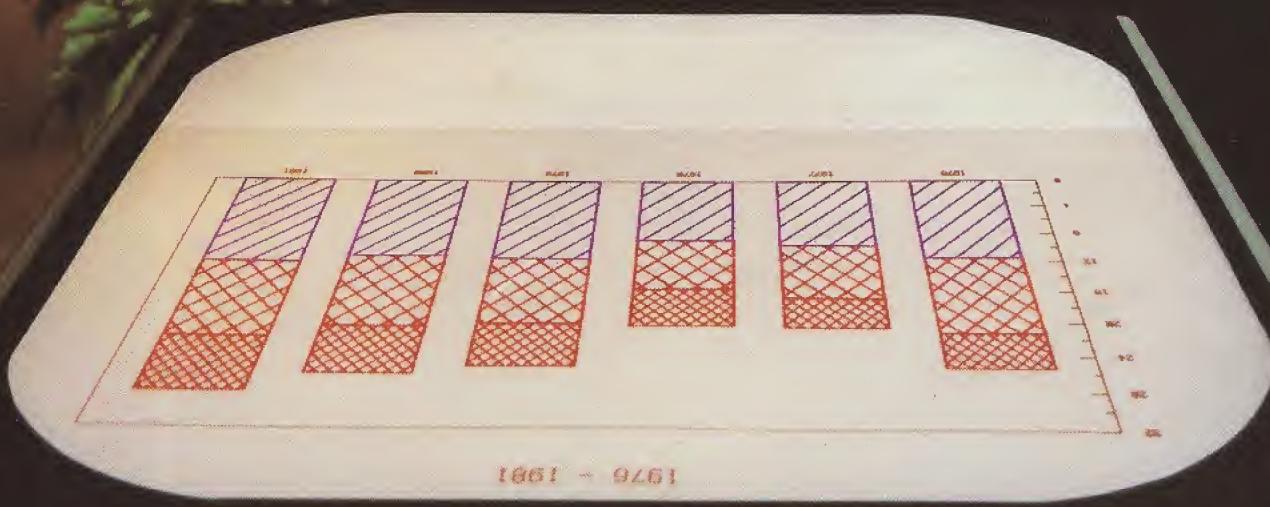
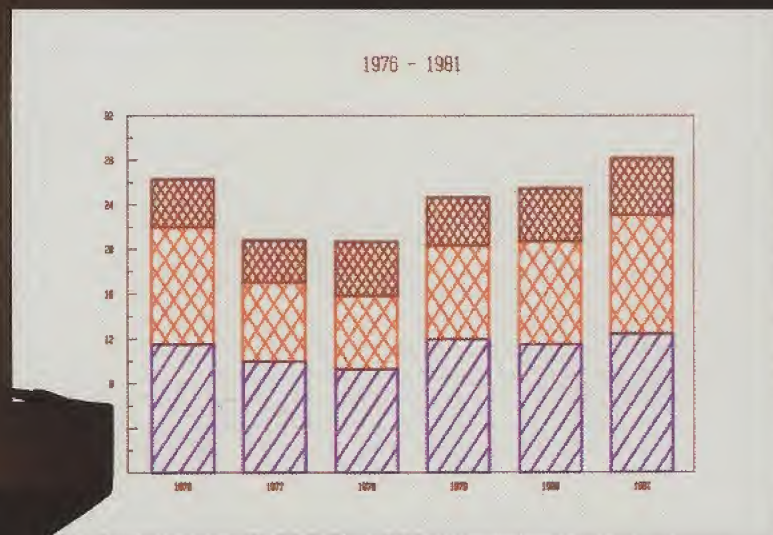
Besides producing multicolor graphics on paper, GRAPHICS/125 will also produce the same graphics on overhead transparencies. These transparencies provide an effective visual presentation of business data at meetings or seminars.

GRAPHICS/125 also creates text slides in a variety of colors, character fonts, and character sizes. This provides great flexibility in designing text for either paper or overhead transparencies. GRAPHICS/125 helps you add impact to your printed reports and your group presentations.

The need for graphics in business applications is growing, and the HP 125 personal office computer provides a cost effective solution to creating professional quality graphics.

*GRAPHICS/125 is HP Product Number 45532A*







## Word Processing

One of a manager's primary responsibilities is communicating information. Letters, memos, and reports all require valuable time and resources. WORD/125 quickly reduces the time you spend on paperwork by turning your computer into a powerful word processor.

With WORD/125 your secretary will never have to type a letter or report a second time. Changes and corrections to the text are made on the computer display. Text can be inserted or deleted at any point in a document. Blocks of text can be moved easily from one location to another. WORD/125 even saves time as text is entered because users don't need to slow down at the end of a line. If a word doesn't fit on the line, WORD/125 automatically moves the word to the beginning of the next line.

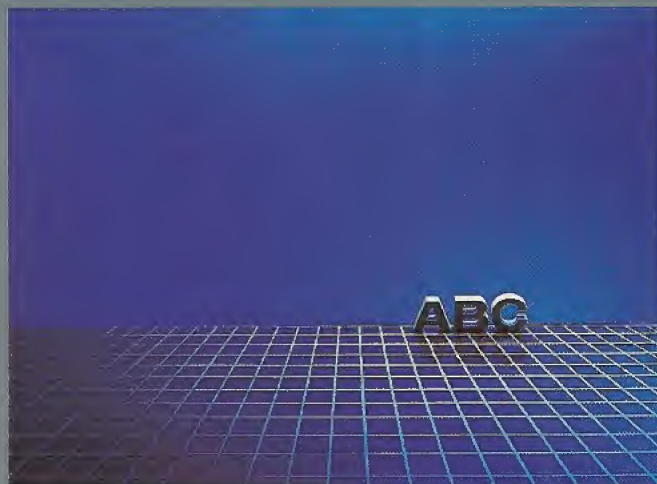
With WORD/125 your documents will always have a professional appearance. The computer display shows how the document will look before it is printed. Deciding how many erasures are acceptable is no longer necessary. WORD/125 operates with the HP 2601A letter quality printer to produce printed output with a "proportionally spaced", typeset appearance. Left, right, and center justification are done automatically. Titles, headings, and pagination are also available. WORD/125 even formats and prints text in two columns. You truly have total control over the way text appears on the page.

The capabilities of WORD/125 extend far beyond word processing. WORD/125 also maintains and sorts mailing lists. You can even merge mailing lists with form documents to create "individualized" letters.

With all its power, WORD/125 is easy to learn and easy to use. In addition to the special symbol keys on the keyboard, WORD/125 also uses screen labeled keys to present the user with an appropriate set of "next steps." Written in simple English, these dynamic labels provide the user with powerful pushbutton commands.

WORD/125 is an important tool that will immediately cut your paperwork load and add to the productivity of your office.

*WORD/125 is HP Product Number 45533A*









## Business Planning

Sound planning is one of the key elements of success in the business world. But very often the business plans upon which future success depends are not carefully done. They don't receive the thoughtful analysis they deserve. This is partly because the planning process itself is so tedious and time consuming. The planning process usually means hours of calculating and filling in numbers on a large sheet of paper. If you need to revise your plan, it is often easier to start all over again than to erase and recalculate the numbers. By the time you're done, you've spent most of your effort generating the plan and relatively little time analyzing the results.

Now, a powerful new tool is available to business planners and decision makers—VISICALC/125. With VISICALC/125, the HP 125 display screen becomes an "electronic worksheet," which can be used for developing forecasts, budgets, and financial plans which use rows and columns of numbers. As you build your plan, VISICALC/125 makes all the necessary calculations and keeps track of totals and averages. You gain a new level of control and understanding as you watch your business plans take shape on the display screen. The HP 125 does the tedious part of the job and lets you concentrate on the information itself. You spend your time analyzing the results, not generating them.

To use VISICALC/125 you begin by entering numbers directly into the array of rows and columns shown on the computer's display screen. By defining mathematical relationships between specified rows and/or columns, a new number entered into the array will create other entries automatically, e.g. Row 3 (Net Sales) = Row 1 (Sales) minus Row 2 (Discounts). Row and column totals change with each new number you enter. If you decide to change a number, VISICALC/125 recalculates every number affected by the change. VISICALC/125 saves you time because it performs all the calculations and creates new entries based on the numbers you enter.

The value of VISICALC/125 extends beyond the initial building of a business plan. VISICALC/125 helps you analyze your plan and "fine tune" your results. By changing one of the numbers in the plan you can test the impact of the change on all parts of the plan. For example, what if sales for the year are 10% higher than I assumed? How will that affect profits? VISICALC/125 lets you immediately see the effect of the change on the entire worksheet. It is this ability to answer "what if" questions that makes VISICALC/125 such an outstanding management tool.

VISICALC/125 is HP Product Number 45531A









## The HP 125 Business Assistant

Forecasts, budgets, business plans, reports, presentations... jobs you and your staff tackle every day. The HP 125 personal office computer is the business assistant that can help you get these jobs done better and faster. The HP 125 can make you a more effective manager, improve your department's productivity, and give you better management control over your business.

The HP 125 is a powerful management tool for analyzing data and putting the information to work for you. With VISICALC®/125, a unique new decision making tool, the HP 125 takes the tedious work out of forecasting, budgeting, and planning. The computer makes all the calculations, keeps track of row and column totals, and formats the data. Changes and updates are made immediately, and results can be printed or stored for later use. With the HP 125 you spend less time making calculations and more time analyzing the results and making the timely decisions your job requires.

The HP 125 saves you time and resources in presenting information. With its powerful word processor, your secretary will never have to re-type letters or reports. Changes are made quickly and easily, and revised documents can be output on a letter quality printer. Your letters and reports will take on a more professional, typeset appearance, in less time!

To help you present information the HP 125 produces high quality graphics. With an HP graphics plotter the HP 125 produces professional quality, multicolor charts and graphs on either paper or overhead transparencies. Graphics that once took weeks to create are now available in a matter of minutes and at a fraction of the former cost.

The HP 125 also expands the amount of information available to you through its communication with other computers. With HP 125 data communications, you can access data files on remote computers, transfer information, and process it locally. Results can then be transferred back to the remote computer. Sharing information in a distributed processing network is the key to using your company's computer resources effectively.

The HP 125 uses the CP/M® operating system, an industry standard with over 200,000 installations. In addition to the capabilities available from Hewlett-Packard,



many other software products are available to operate with the HP 125. As a result, the HP 125 functions in a large number of applications and solves a wide range of problems.

For all its power and versatility, the HP 125 is remarkably easy to use. You don't need extensive computer know-how to use this system. Most of the applications are menu driven. Screen labeled keys show what choices are available and guide the user, step-by-step, through an application.

The HP 125 Business Assistant is a versatile, easy to use computer system that can help you with many of your day-to-day information handling needs. It will be a valuable addition to your office, one that's ready to work the day it arrives.

